

SHURIN, S.P.

Pathogenesis of cell affection by the virus isolated from patients
with rheumatic fever. Vop.virus. 7 no.3:277-280 My-Je '61.

(MIRA 14:7)

1. Iz kafedry fakul'tetskoy terapii i revmatologicheskoy laboratorii
Novosibirskogo meditsinskogo instituta.

(RHEUMATIC FEVER)

(VIRUSES)

ZALESSKIY, G.D.; VOROB'YEVA, N.N.; YAVOROVSKAYA, V.Ye.; SHURIN, S.P.;
BALANDINA, A.M.; ZHDANOV, V.M.; DREYZIN, R.S.

Study of filtrable viruses isolated from rheumatic patients.
Vest.AMN SSSR 17 no.9:85-93 '62. (MIRA 15:12)
(RHEUMATIC FEVER—MICROBIOLOGY) (VIRUSES)

SHURIN, S.P.; CHASOVSKIY, G.G.; MIKHAYLOVA, L.P.; GRIGOR'YEV, Yu.A.;
MELESHIN, S.V.

Effect of heparin on cells of malignant tumor in tissue culture.
Biul. eksp. biol. i med. 57 no.3:85-88 Mr '64.

(MIRA 17:11)

1. Novosibirskiy meditsinskiy institut. Predstavlena deystvitel'-
nym chlenom AMN SSSR N.N. Zhukovym-Verezhnikovym.

SHURIN, V.M., inzh

Selecting the setting of supervisory relays in current circuits
for differential protection of transformers. Elek.sta. 29 no.9:44-45
S '58. (MIRA 11:11)

(Electric relays) (Electric transformers)

SHURIN, V.M., inzh.

Relay for checking the operational state of networks with zero
sequence voltage. Elek. sta. 33 no.4:85 Ap '62. (MIRA 15:7)
(Electric relays) (Electric networks--Testing)

SHURIN, V.M., inzh.

Automatic device for shifting synchronous motors from a fluctuating electric power source. Elek. sta. 33 no.5:40-42 My '62. (MIRA 15:7)
(Electric power distribution) (Electric motors, Synchronous)

SHESTOPAL, O. Ya. (Novosibirsk); SHURIN, Ya.I. (Novosibirsk)

Experimental determination of pressure distribution in a thin
circulat plate compressed between two plane anvils. PMTF no. 6:
174-176 N-D '63. (MIRA 17:7)

CHURILIN, A. I.

CHURILIN, A. I. -- "Methods of Investigation of Pain Symptoms in Children in Chronic Appendicitis and Their Anatomical-Physiological Basis." Min Health Ukrainian SSR. Kiev Order of Labor Red Banner Medical Institute Academician A. A. Bogomolets. Kiev, 1955. (Dissertation for the Degree of Candidate in Medical Sciences)

SO: Knizhnaya Letopis', No 1, 1956

SHURINOK, A.R., dotsent; SOKOLOVSKIY, V.D.(Kiyev)

Case of repeated surgery in severe thyrotoxic goiter. Probl.
endokr. i gorm. 1 no.5:113-114 S-O '55. (MLRA 8:10)

1. Iz kafedry khirurgii detskogo vozrasta (i.o.zav.--dotsent
A.R.Shurinok) Kiyevskogo ordena Trudovogo Krasnogo Znameni
meditsinskogo instituta imeni akad. A.A.Bogomol'tsa (dir.
dotsent I.P.Alekseyenko) i khirurgicheskogo otdeleniya kli-
nicheskoy bol'nitsy imeni M.I.Kalinina (glavnyy vrach V.A.
Udintseva)

(HYPERTHYROIDISM, surgery,
repeated)

SHURINOK, A.R., doktor med. nauk (Kiyev, ul. Chkalova, d.90, kv.26)

Recurrent forms of intestinal invagination in children. Nov.khir.
arkh. no.6:98-103 H-D '58. (MIRA 12:3)

1. Kafedra khirurgii detskogo vozrasta Kiyevskogo meditsinskogo
instituta.

(INTESTINES--INTUSSUSCEPTION)
(CHILDREN--DISEASES)

SHURINOK, A.R., doktor med.nauk; SOKOLOVSKIY, V.D. (Kiyev)

Surgical therapy of various forms of goiter; based on data collected by the author. Probl.endok. i gorm. 5 no.4:57-64 J1-Ag '59.

(MIRA 13:2)

1. Iz kafedry khirurgii detskogo vozrasta (zaveduyushchiy - doktor med.nauk A.R. Shurinok) Kiyevskogo ordena Trudovogo Krasnogo Znameni meditsinskogo instituta imeni akad. A.A. Bogomol'tsa (direktor - dotsent I.P. Alekseyenko) i khirurgicheskikh otdeleniy klinicheskoy bol'nitsy imeni M.I. Kalinina (glavnyy vrach V.A. Udintseva).

(GOITER surg.)

SHURINOK, A.R., prof. (Kiyev, ul. Chkalova, d.90, kv.26); BAKLANOVA, A.N.

Surgical treatment of megacolon in Favalli-Hirschsprung's disease.
Nov. khir. arkh. no.3:30-37 My-Je '60. (MIRA 15:2)

1. Kafedra khirurgii detskogo vozrasta (zav. prof. A.R.Shurinok)
Kiyevskogo meditsinskogo instituta i khirurgicheskoye otdeleniye
gorodskoy klinicheskoy detskoy bol'nitsy.
(COLON ABNORMALITIES AND DEFORMITIES)

SKRIPNICHENKO, D.F., prof., red.; SHURINOK, A.R., prof., red.;
GABAY, A.V., prof., red.; DMITRIYEV, M.L., prof., red.;
KHRISTICH, A.D., prof., red.; ZAYCHENKO, I.L., prof., red.;
SITKOVSKIY, N.B., kand. med. nauk, red.; PARKHOMENKO, V.N.,
red.

[Problems in pediatric surgery; transactions] Problemy khirurgii detskogo vozrasta; trudy. Kiev, Gosmedizdat USSR, 1963. 257 p. (MIRA 17:5)

1. Ukrainskaya nauchno-prakticheskaya konferentsiya khirurgov detskogo vozrasta. 1st.

DOLNITSKY, O.V.; PETRUN, N.M.; SHURINOK, A.R.

Oxygen saturation of skin graft and recipient zone for improving the take. Acta chir. plast. (Praha) 7 no.4: 303-309 '65.

1. Bogomolets Kiev Medical Institute (Director: Prof. V.D. Bratus) and Kiev Scientific Research Institute of Occupational Hygiene and Diseases, Kiev, USSR (Director: Prof. L.I. Medved).

SHURINOK, L.A.

Change in the peripheral blood circulation according to capillaroscopic data in hypertension [with summary in English].
Vrach.delo no.9:60-62 S '62. (MIRA 15:8)

1. Klinika nervnykh bolezney (zav. - zaslushennyi deyatel' nauki, prof. D.I.Panchenko) Kiyevskogo instituta usovershenstvovaniya vrachey.

(HYPERTENSION) (CAPILLARIES)

SHURINOV, N.A., kand. tekhn. nauk [deceased].

Investigating the heating and cooling of airplane wires under
high altitude conditions. Trudy MAI no.87:5-45 '57. (MIRA 10:12)
(Airplanes--Electric equipment--Testing)

SHURINOV, N.A.

SHURINOV, N.A., kand. tekhn. nauk [deceased].

Investigating the heating of hollow bus bars under high altitude conditions. Trudy MAI no.87:46-89 '57. (MIRA 10:12)
(Airplanes--Electric equipment--Testing)

FILIPPOVA, M.P., kand. tekhn. nauk; SHURINOVA, M.K., gornyy inzh.

Testing new dust-filter masks. Gor. zhur. no. 12:67-70
D '65. (MIRA 18:12)

1. TSentral'naya komissiya po bor'be s silikozom, Moskva.

YEROKHINA, L.S.; OVCHINNIKOVA, V.F.; SHURINOVA, M.N.; FAKHRETDINOVA, S.Kh.;
LAVOCHKIN, M.P., otv. red.; DUDOROVA, L., red.; KUZNETSOVA, A.,
tekhn. red.

[Streets of Greater Moscow; a guide. As of February 10, 1961.
Ulitsy Bol'shoi Moskvy; spravochnik. Po sostoianiiu na 10 fev-
ralia 1961 g. Moskva, Mosk. rabochii, 1961. 551 p. (MIRA 14:6)

1. Moskovskaya gorodskaya spravochno-informatsionnaya kontora
"Mosgorspravka," Moscow.

(Moscow--Streets)

SHCHESPILOVA, Yu.; SHUMIS, N.

Commerce - Dictionaries and Encyclopedias

Comments on the "Export-Import Dictionary" of the Foreign Trade Publishing Agency.
Ugol' 26, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

SHURIS, N. A.

PA 40/49188

USSR/Mining Equipment
Coal

Jan 49

"Results of Pit Tests on the MV-60 Cutting
Machine Operated by an Experienced Crew,"
N. A. Shuris, A. I. Chevnenko, 5 pp.

"Ugol'" No 1

Equipment was designed by GiprougleMash, Min
of Coal Industries for Western Regions,
and is manufactured by Gorlovo Factory of
Coal Mach Constr imeni S. M. Kirov. Details
performance and operating characteristics
of the machine, with exploded view of drive
transmission.

40/49188

CHUMIN, N. A.

"Description of CTK-35, ShVD-48 Cutting Machines; Combass combine; cutter Bits,"
Mashinist Brubovoy Mashiny, Moscow, 1950.

U-1952, 16 May 52

SHURIS, N. A.

Technology

O sovetskoi vrubovoi mashina. Zametki konstruktora (Soviet cutting machine; notes of the builder). Moskva, Ugletekhizdat, 1951. 60 p.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

SHURIS, N. A.

Automatization of the feed of coal cutters and combines Moskva, Ugletikhizdat, 1951.
(Mic 53-866) Collation of the original: 68 p.

Microfilm TN-14

TOPCHIEV, A.V.; SHURIS, N.A.

[Coal cutting machines; atlas of designs] Vrubovye mashiny; atlas konstruktsii. Moskva, Ugletekhizdat, 1952. 71 p. (MLRA 6:7)
(Coal mining machinery)

MINTCHEV, V. I.; SHUREB, H. A.

Coal-Mining Machinery

Coal-Cutting machine GTK-35

Mekh. trud. rab. 6, No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED.

SHURIS, N.A.; MINICHEV, V.I.

[GTK-35m cutting machine] Vrubovaya mashina GTK-35m. Moskva, Ugletekhniz-
dat, 1953. 165 p. (MLRA 7:1)
(Coal mining machinery)

SHURIS, N.A.

Fuel Abstracts
May 1954
Natural Solid
Fuels: Winning

✓ 3343. NEW CUTTER-LOADER FOR STEEPLY DIPPING SEAMS. Shuris, N.A.
(Mekhan. Trud. tyazhel. Rabot (Mech. arduous Wk), July 1953, 25, 26).

SHURIS, N.A., inzhener, laureat Stalinskoy premii; BOGUTSKIY, N.V., inzhener;
~~SHCHUKIN~~ SHCHUKIN, I.V., inzhener.

Coal-cutting machine with automatic feed regulation. Mekh. trud. rab. 7
no.11:20-23 D '53. (MLRA 6:12)
(Coal-mining machinery)

SHUKIS, NA

✓ 38cl. TEST RESULTS FOR THE MVCA COAL CUTTER. Shukis, N.A.,
Bogutskii, N.V. and Shchukin, I.V. (Moscow: Ministry of Coal Industry
U.S.S.R., 1955, 40pp.; abstr. in Ugol (Coal, Moscow), Dec. 1955, 44). The
coal cutter has hydraulic drive and automatic control of the rate of feed. The
cutting speed is 1.9 m/sec.

SHURIS, N.A.

ALEKSANDROV, B.F., inzh.; BALKOV, V.M., inzh.; BARANOVSKIY, F.I., inzh.;
 BOGUTSKIY, N.V., inzh.; BUN'KO, V.A., kand.tekhn.nauk, dotsent;
 VAVILOV, V.V., inzh.; VOLOTKOVSKIY, S.A., prof., doktor tekhn.nauk;
 GRIGOR'YEV, L.Ya., inzh.; GRIDIN, A.D., inzh.; ZARMAN, L.N., inzh.;
 KOVALEV, P.F., kand.tekhn.nauk; KUZNETSOV, B.A., kand.tekhn.nauk,
 dotsent; KUSNITSYN, G.I., inzh.; LATYSHEV, A.F., inzh.; LEYBOV,
 R.M., doktor tekhn.nauk, prof.; LEYTES, Z.M., inzh.; LISITSYN, A.A.,
 inzh.; LOKHANIN, K.A., inzh.; LYUBIMOV, B.N., inzh.; MASHKEVICH,
 K.S., inzh.; MALKHAS'YAN, R.V.; MILOSERDIN, M.M., inzh.; MITNIK,
 V.B., kand.tekhn.nauk; MIKHEYEV, Yu.A., inzh.; PARAMONOV, V.I.,
 inzh.; ROMANOVSKIY, Yu.G., inzh.; RUBINOVICH, Ye.Ye., inzh.;
 SAMOYLYUK, N.D., kand.tekhn.nauk; SMEKHOV, V.K., inzh.; SMOLDY-
 REV, A.Ye., kand.tekhn.nauk; SNAGIN, V.T., inzh.; SNAGOVSKIY,
 Ye.S., kand.tekhn.nauk; FEYGIN, L.M., inzh.; FRENKEL', B.B., inzh.;
 FURMAN, A.A., inzh.; KHORIN, V.N., dotsent, kand.tekhn.nauk; CHET-
 VEROV, B.M., inzh.; CHUGUNIKHIN, S.I., inzh.; SHELKOVNIKOV, V.N.,
 inzh.; SHIRYAYEV, B.M., inzh.; SHISHKIN, N.F., kand.tekhn.nauk;
 SHPIL'BERG, I.L., inzh.; SHORIN, V.G., dotsent, kand.tekhn.nauk;
 SHTOKMAN, I.G., doktor tekhn.nauk; SHURIS, N.A., inzh.; TERPIGOREV,
 A.M., glavnyy red.; TOPCHIYEV, A.V., otv.red.toma; LIVSHITS, I.I.,
 zamestitel' otv.red.; ABRAMOV, V.I., red.; LADYGIN, A.M., red.;
 MOROZOV, R.N., red.; OZERNOY, M.I., red.; SPIVAKOVSKIY, A.O.,
 red.; PAYBISOVICH, I.L., red.; ARKHANGEL'SKIY, A.S., inzh., red.;

(Continued on next card)

ALEKSANDROV, B.F.---(continued) Card 2.

BELYAYEV, V.S., inzh., red.; BUKHANOVA, L.I., inzh., red.; VLASOV, V.M., inzh., red.; GLADILIN, L.V., prof., doktor tekhn.nauk, red.; GREBTSOV, N.V., inzh., red.; GRECHISHKIN, F.G., inzh., red.; GONCHAREVICH, I.F., kand.tekhn.nauk, red.; GUDALOV, V.P., kand.tekhn.nauk, red.; IGNATOV, N.N., inzh., red.; LOMAKIN, S.M., dotsent, kand.tekhn.nauk, red.; MARTYNOV, M.V., dotsent, kand.tekhn.nauk, red.; POVOLOTSKIY, I.A., inzh., red.; SVETLICHNYY, P.L., inzh., red.; SAL'TSEVICH, L.A., kand.tekhn.nauk, red.; SPERANTOV, A.V., kand.tekhn.nauk, red.; SHETLAR, G.A., inzh., red.; ABARBARCHUK, F.I., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheskiy spravochnik. Glav.red.A.M.Terpigorev. Chleny glav.redaktsii A.I. Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.7. [Mining machinery] Gornye mashiny. Redkol.toma A.V.Topchiev i dr. 1959. 638 p. (Mining machinery) (MIRA 13:1)

KUKHTENKO, Aleksandr Ivanovich; SVETLICHNYY, Pavel Luk'yanovich; SHOYKHET, Lev Abramovich; SHURIS, Naum Aronovich; MIRSKAYA, V.V., red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Automation of mining operations] Avtomatizatsiia ochistnykh i prokhodcheskikh rabot. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 274 p. (MIRA 14:6)
(Automation) (Coal mining machinery)

AL'SHITS, Yakov Isaakovich, dots.; VERKLOV, Boris Abramovich; VOROVITSKIY, Abram Nakhimovich, dots.; KOSTYUKEVICH, Fedor Vasil'yevich, dots.; MALEYEV, Georgiy Vasil'yevich, dots.; OSOKIN, Pavel Andreyevich, assist.; ROZENBERG, Boris Lazarevich, dots.; LADYGIN, A.M., inzh. retsenzent; SHURIS, N.A., red.; SHOROKHOVA, A.V., red. izd-va; BOLDYREVA, Z.A., tekhn. red.; MAKSIMOVA, V.V., tekhn. red.

[Mining machinery] Gornye mashiny. By IA.I.Al'shits i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 491 p.
(MIRA 14:12)

1. Glavnyy inzhener Spetsial'nogo konstruktorskogo byuro Kopeyskogo mashinostroitel'nogo zavoda (for Verklov).
(Mining machinery)

TOPCHIIYEV, Aleksey Vasil'yevich, prof., doktor tekhn. nauk; SHURIS,
Naum Aronovich, inzh.; FILIMONOV, N.A., otv. red.; BOLLYREVA,
Z.A., tekhn. red.; SHKLYAR, S.Ya., tekhn. red.

[Machinery for stoping and development operations; design
and construction] Mashiny dlia ochistnykh i podgotovitel'nykh
rabot; raschet i konstruirovaniye. Moskva, Gosgortekhzdat,
1962. 351 p. (MIRA 15:11)

(Mining machinery)

SENDEROVA, G.M., otv.red.; SHUROV, S.I., red.; BASHLAVINA, G.N., red.;
VORONINA, A.N., red.; GUREVICH, I.V., red.; ZASLAVSKIY, I.I.,
red.; KOZLOV, P.M., red.; LARIN, D.A., red.; RAUSH, V.A., red.;
SAMOYLOV, I.I., red.; SENDEROVA, G.M., red.; SLADKOVA, Ye.A.,
red.; STROYEV, K.F., red.; SCHASTNEV, P.N., red.; TUTOCHKINA,
V.A., red.; ERDELI, V.G., red.

[Geographical atlas for the fourth grade] Geograficheskii atlas
dlia 4-go klassa. Moskva, Glav.uprav.geodez. i kartografii M-va
geol. i okhrany nedr SSSR, 1960. 16 p. (MIRA 13:8)
(Atlases)

SIGOV, A.A.; SHURKHAL, V.A.

Carbon combustion during the sintering process. Izv. vys. ucheb.
zav.; chern. met. no.12:23-30 '60. (MIRA 14:1)

1. Kiyevskiy politekhnicheskii institut.
(Sintering) (Carbon)

SIGOV, A.A.; SHURKHAL, V.A.

Accurate curve of the affinity of elements to oxygen and its use to study the thermodynamics of reduction processes in the blast furnace. Izv.vys.ucheb.zav.; chern.met. no.4:15-25 '61. (MIRA 14:4)

1. Kiyevskiy politekhnicheskii institut.
(Thermodynamics) (Cast iron--Metallurgy)

SIGOV, A.A.; SHURKAL, V.A.

Nomograms for the composition of carbon combustion products in a
sinter layer and their use. Izv. vys. ucheb. zav.; chern. met. 4
no.8:18-23 '61. (MIRA 14:9)

1. Kiyevskiy politekhnicheskii institut.
(Sintering) (Combustion gases--Analysis)

SIGOV, A. A.; SURHAL, V. A. [Shurkhal, V. A.]

A more accurately defined diagram of the affinity of elements in the presence of oxygen, and its use in the thermodynamic investigations of reduction processes in blast furnaces. *Analele metalurgie* 15 no.4:16-27 O-D '61.

(Oxygen) (Blast furnaces) (Reduction)

SIGOV, A.A.; SHURKHAL, V.A.

Reduction processes in the sintering of iron ores. Izv.vys.ucheb.
zav.; chern.met. 5 no.6:26-31 '62. (MIRA 15:7)

1. Kiyevskiy politekhnicheskiy institut.
(Sintering--Testing)

SIGOV, A.A.; SHURKHAL, V.A.

Role of moisture in the sintering of Krivoy Rog ores.
Izv. vys. ucheb. zav.; chern. met. 5 no.10:18-24 '62.
(MIRA 15:11)

1. Kiyevskiy politekhnicheskii institut.
(Krivoy Rog Basin—Iron ores)
(Sintering)

SHURKHAL, V.A.; SIGOV, A.A.

Nomograms for determining the theoretical composition of the gaseous phase during the sintering of fluxed charge mixtures and their use. Izv. vys. ucheb. zav.; chern. met. 7 no.3:29-36 '64.

(MIRA 17:4)

1. Kiyevskiy politekhnicheskii institut i Dnepropetrovskiy metallurgicheskii institut.

SHULMAN, A.A.; SHULMAN, V.A.

Effect of certain factors on the composition of solid fuel
combustion products in a sintering bed. Izv. vys. ucheb. zav.
chern. met. 7 no.12:15-18 '64 (MIRA 18:1)

1. Kiyevskiy politekhnicheskii institut.

SIGOV, A.A. ~~1944/1945~~ ~~1944~~

Development of oxidation-reduction processes during the sintering
of magnetite concentrates. Izv.vys.ucheb.zav.; chern.met. 8 no.6:38-
42 '65. (MIRA 18:8)

1. Kiyevskiy politekhnicheskii institut.

SHURKHIN, S. A.

D. A. Epshteyn and S. A. Shurkhin, Uchebnyye modeli zavodskikh khimicheskikh ustanovok /Teaching Models of Plant Chemical Installations/, Uchpedgiz, 5 sheets, 25,000 copies

This brochure describes demountable models of plant chemical installations for the production of ammonia, nitric acid and sulfuric acid; gives instructions to the pupils on making these models.

Intended for middle-school pupils of the 8th to 10th grades.

SO: U-6472, 23 Nov 1954

POKROVSKIY, A.A.; GLAZYRIN, I.A.; DUBOV, A.G.; ZVORYKIN, B.S.;
SHURKHIN, S.A.; TRET'YAKOV, N.P., redaktor; MUKHINA, T.N.,
tekhnicheskiy redaktor

[Demonstration experiments in physics for the classes 6-7 of
secondary schools] Demonstratsionnye opyty po fizike v VI-VII
klassakh srednei shkoly. Moskva, Izd-vo Akademii pedagog. nauk
RSFSR, 1954. 389 p. (MIRA 8:1)
(Physics--Experiments)

POKROVSKIY, Aleksandr Andreyevich; GLAZYRIN, Aleksandr Ivanovich; DUBOV, Aleksandr Grigor'yevich; ZAVORYKIN, Boris Sergeyevich; ~~SHURKHIN, Semen Abramovich~~; MIKHAIKEVICH, T.V., redaktor; DZHATIYEV, S.G., tekhnicheskiiy redaktor

[Practical work in physics for senior classes of secondary schools; a manual for teachers] Praktikum po fizike v starshikh klassakh srednei shkoly; posobie dlia uchitel'ia. Pod red. A.A. Pokrovskogo. Izd. 3-e, ispr. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956. 288 p. (MLRA 9:10)
(Physics—Problems, exercises, etc.)

POKROVSKIY, Aleksandr Andreyevich; GLAZYRIN, Aleksandr Ivanovich; DUBOV, Aleksandr Grigor'yevich; ZVORYKIN, Boris Sergeyevich; SHURKHIN, Seren Abramovich; MIKHALKEVICH, T.V., redaktor; TSYPO, R.V., ~~tekhnicheskii~~ cheskiy redaktor

[Demonstrative experiments in physics for classes 6 and 7 of the secondary schools; teacher's manual] Demonstratsionnye opyty po fizike v VI-VII klassakh srednei shkoly; posobie dlia uchitelia. Pod red. A.A.Pokrovskogo. Izd. 2-os. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSFSR, 1956. 270 p. (MLRA 9:12)
(Physics--Experiments)

POKROVSKIY, Aleksandr Andreyevich. Prinimali uchastiye: GLAZYRIN, A.I., nauchnyy sotrudnik; DUBOV, A.G., nauchnyy sotrudnik; ZVORYKIN, B.S., nauchnyy sotrudnik; SHURKHIN, S.A., nauchnyy sotrudnik; KUZ'MIN, A.P., glavnyy konstruktory; MIKHAILOVICH, T.V., red.; TSYPO, B.V., tekhn.red.

[Equipment of a physical laboratory; teacher's manual]
Oborudovanie fizicheskogo kabineta; posobie dlia uchitelia.
Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv. RSFSR, 1958.
422 p. (MIRA 12:7)

1. Upravleniye uchebno-tekhnicheskoy promyshlennosti.
(Physical laboratories--Equipment and supplies)

SHURKIN, D. A. and SHUK, J. J.

"Magnetic structure of highly coercive compounds," Journal of Tech. Physics, Vol. 20,
No. 11, 1950.

SHURKIN, K.A.

New data on the geology of pre-Cambrian "drnsites" in the western White Sea region. Dokl. AN SSSR 105 no.2:347-349 '55. (MLRA 9:3)

1. Laboratoriya geologii dokembriya Akademii nauk SSSR. Predstavleno akademikom A.A. Polkanovym.
(White Sea region--Geology, Stratigraphic)

NIKOLAYEV, V.A.; GORLOV, N.V., kandidat geologo-mineralogicheskikh nauk;
SHURKIN, K.A., kandidat geologo-mineralogicheskikh nauk; SUDOVNIKOV,
~~N.O.~~, doktor geologo-mineralogicheskikh nauk; MASLENIKOV, V.A.,
kandidat geologo-mineralogicheskikh nauk; PRIYATKINA, L.A., geolog;
POLKANOV, A.A., akademik, glavnyy redaktor; BABINTSEV, N.I., redaktor
izdatel'stva; KRYNOCHKINA, K.V., tekhnicheskiiy redaktor

[Practical guide to geological mapping of metamorphic complexes]
Metodicheskoe rukovodstvo po geologicheskomu kartirovaniyu metamorfi-
cheskikh kompleksov. Pod red. V.A.Nikolaeva. Moskva, Gos.nauchno-
tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1957. 450 p. (MLRA 10:9)

1. Akademiya nauk SSSR. Laboratoriya geologii dokembriya. 2. Chlen-
korrespondent Akademii nauk SSSR (for Nikolayev). 3. Laboratoriya
geologii decombriya Akademii nauk SSSR (for Nikolayev, Gorlov, Shurkin,
Sudovnikov, Maslennikov, Priyatkina)
(Geology--Maps)

SHURKIN, K.A.

Problems relative to the classification of ultrametamorphic rocks
in general and migmatite in particular; studies on the White Sea
region. Trudy Lab. geol. dokem. no. 7:74-108 '57. (MIRA 11:3)
(White Sea region--Rocks, Crystalline and metamorphic)

SHURKIN, K.A.; BORISOV, P.A., prof., otvetstvennyy red.; SEMENOVA, Ye.
red.izd-va; PEVZNER, R.S., tekhn.red.

[Geological account of the Pitkyaranta deposit of ceramic pegmatites;
northeastern Ladoga region] Geologicheskii ocherk Pitkiarantskogo
polia keramicheskikh pegmatitov; severo-vostochnoe Priladozh'e.
Moskva, Izd-vo Akad. nauk SSSR, 1958. 87 p. (MIRA 11:5)
(Ladoga region--Pegmatites)

SHURKIN, K.A.

Discussing the results of the determination of the absolute age of
rocks in the White Sea complex. Trudy Lab.geol dokem. no.9:56-60
'59. (MIRA 13:11)
(White Sea region--Rocks) (Geological time)

SHURKIN, K.A.

Main features of the geological development of the Archean system
in the northwestern White Sea region. Trudy Lab.geol dokem. no.9:
75-93 '59. (MIRA 13:11)
(White Seas region--Geology)

SHURKIN, K.A.

Discussing the Archean geological history of the western White Sea
region (Reply to N.G.Sudovikov). Trudy Lab.geol dokem. no.9:96-99
'59. (MIRA 13:11)

(White Sea region--Geology)

SHURKIN, K.A.; DUK, V.L.; MITROFANOV, F.P.

Geology and petrography of Archean gabbro-labradorites in northern
Karelia. Trudy Lab.geol dokem. no.9:120-149 '59. (MIRA 13:11)
(Karelia--Gabbro)

SHURKIN, K.A.

"Conglomerates" of the Kandalaksha Islands and Cape Tur'ev.

Trudy Lab.geol dokem. no.9:198-411 '59.

(MIRA 13:11)

(Murmansk Province--Geology, Structural)

SOV/20-125-6-44/61

3(5)
AUTHOR:

Shurkin, K. A.

TITLE:

On the Paleozoic Pseudoconglomerates of North Karelia and the Kola Peninsula (O paleozoyskikh psevdokonglomeratakh Severnoy Karelii i Kol'skogo poluostrova)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 6, pp 1329-1332 (USSR)

ABSTRACT:

After the publication of the papers of N. G. Sudovikov and I. S. Ozhinskiy (Refs 1 and 2) conglomerate exposures in the north-western Belomor'ye (White Sea region) became known which are related to the Paleozoic effusive and dike complexes of alkaline lamprophyres (Ref 3). The views concerning their age were conflicting (Refs 2,6-8) according to the description of these "basal conglomerates" (Refs 1,4). The author obtained new facts by his investigations in 1956 which permit a revision of the genesis of the aforesaid "conglomerates" and a precise determination of the age of the Tur'inskiye sandstones. Figure 1 shows the Kandalaksha zone of the alkaline dikes. On the strength of the figures of the absolute age they are 470-480 million years old, other rocks are younger (270-280 million years). From the facts obtained it may be concluded that the

Card 1/2

On the Paleozoic Pseudoconglomerates of North Karelia and the Kola Peninsula SOV/20-125-6-44/61

volcanogenic pseudoconglomerates cannot form the basis of a direct evaluation of the Devonian age, neither of the Tur'inskiye quartzite sandstones nor of the Terskaya suite as a whole. According to the entity of geological peculiarities they must obviously be ascribed to the ionthish formations, as was the case earlier (Ref 14). The discovery of a new explosion pipe in the north-west of the country increases the prospects of finding diamonds in this region. There are 1 figure and 15 references, 14 of which are Soviet.

ASSOCIATION: Laboratoriya geologii dokembriya pri Otdelenii geologo-geograficheskikh nauk Akademii nauk SSSR (Laboratory of Precambrian Geology of the Department of Geological and Geographical Sciences of the Academy of Sciences USSR)

PRESENTED: December 11, 1958, by A. A. Polkanov, Academician

SUBMITTED: December 8, 1958

Card 2/2

SHURKIN, Kirill Aleksandrovich, kand.geol.--mineral.nauk; GORLOV, Nikolay Vasil'yevich; SAL'S, Marina Yevgen'yevna; DUK, Vladimir Leont'yevich; NIKITIN, Yuriy Vladimirovich; POLKANOV, A.A., akademik, glavnyy red.; ARON, G.M., red.izd-va; KRUGLIKOVA, N.A., tekhn.red.

[Belomorsk complex of northern Karelia and the southwestern part of the Kola Peninsula; geology and pegmatite potential] Belomorskii kompleks Severnoi Karelii i iugo-zapada Kol'skogo poluostrova; geologiya i pegmatitizatsiya. Moskva, Izd-vo Akad. nauk SSSR, 1962. 305 p. (Akademiia nauk SSSR. Laboratoriia geologii dokembrii. Trudy, no.14). (MIRA 16:2)

(Karelia—Pegmatites)
(Kola Peninsula—Pegmatites)

YELISEYEV, N. A.; LOMEN, I. A.

Academician Aleksandr Alekseyevich Lomen. Trudy s'p. geol.
Zhurn. no.19:3-17 '64 (MFI. 17:8)

1. Sovetskoye redaktor zhurnala "Geologiya i geotekhnologiya
dokumenty" shkola-korrespondent AN SSSR (for Yeliseyev).

POPFANOV, A.A. (deceased); ALATIN, V.I.; ANDERSON, R.A.

Pre-Quaternary geology of Karelia and the Kola Peninsula.
Trudy lab. geol. dokem. no.19322-44 1961 (M RA 1728)

YELISEYEV, N.A.; KRATTS, K.O.; MASLENIKOV, V.A.; SHURKIN, K.A.; SOLOV'YEV, S.P.

Aleksandr Alekseevich Polkanov, 1888-1963; obituary.
Zap. Vses. min. ob-va 92 no.3:381-383 '63. (MIRA 17:9)

1. Leningradskiy gosudarstvennyy universitet (for Yeliseyev).
2. Laboratoriya geologii dokembriya AN SSSR (for Kratts, Maslenikov, Shurkin).
3. Vsesoyuznoye mineralogicheskoye obshchestvo (for Solov'yev).

SOROKIN, M.I., kand.sel'skokhozyzystvennykh nauk; SHURKIN, V.P.

Pea cultivation in the Mordovian A.S.S.R. Zemledelie 24 no.4:
36-39 Ap '62. (MIRA 15:4)

1. Mordovskaya respublikanskaya gosudarstvennaya sel'skokhozyzystven-
naya stantsiya.

(Mordovia—Peas)

TABAKOV, P.K.; CHUBRIKOVA, Ye.V.; SHURKINA, I.I.; VEL'NER, Ye.I.

Rapid method for obtaining labelled fluorescent stained antibodies. Zhur. mikrobiol. epid. i immun. 33 no.10:26-30 0'62

1. Iz Vsesoyuznogo nauchno-issledovatel'skogo instituta "Mikrob", Saratov.

PONIZOVKIN, A.N.; ETMANOV, S.Ya.; VINOGRADOV, V.V.; SHURKINA, V.S.
Prinimali uchastiye: BRUSYANTSEV, N.V.; KOVAL'CHUK, V.P.;
RYTCHENKO, V.I.; RUBETS, D.A.; KLINKOVSHTEYN, G.I.;
FILIN, A.G., red.izd-va; MAL'KOVA, N.V., tekhn.red.

[Brief manual on motor vehicles] Kratkii avtomobil'nyi
spravochnik. Izd.3., perer. i dop. Moskva, Avtotransizdat,
1961. 461 p. (MIRA 14:12)

1. Moscow. Nauchno-issledovatel'skiy institut avtomobil'nogo
transporta. 2. Nauchno-issledovatel'skiy institut avtomobil'-
nogo transporta (for Ponizovkin, Etmanov, Vinogradov, Shurkina).
(Motor vehicles)

PONIZOVKIN, A.N.; SHURKINA, V.S.; KUZNETSOV, V.A.; TUZOVSKIY, I.D.;
ETIMANOV, S.Ya.; VINOGRADOV, V.V.; VLASKO, Yu.M.; GRINBERG,
P.I., red.; BODANOVA, A.P., tekhn. red.

[Brief handbook on motor vehicles] Kratkii avtomomibl'nyi
spravochnik. Izd. 4., perer. i dop. Moskva, Avtotransiz-
dat, 1963. 311 p. (MIRA 17:1)

1. Moscow. Nauchno-issledovatel'skiy institut avtomobil'-
nogo transporta. 2. Laboratoriya gruzovykh avtomobiley i
avtopoyezdov Nauchno-issledovatel'skogo instituta avtomobil'-
nogo transporta (for all except Grinber, Bodanova).
(Motor vehicles)

SHURKINA L.V.
ZUBOV, P.I.; SHURKINA, Z.N.; KARGIN, V.A.

Structure of gels. Part 6. Preparation of gels and globules from
rubber through vulcanization of the solution. Koll.zhur. 16 no.5:
345-349 S-O '54. (MLRA 7:11)

(Colloids) (Vulcanization) (Rubber)

SHURKO, I.I.

Rhythms of stratification in contemporary littoral marine sediments
(as illustrated by the sediments of the Sea of Azov and the Black
Sea). Biul.MOIP.Otd.geol. 35 no.2:157-158 M-Ap '60. (MIRA 14:4)

(Azov, Sea of--Sediments (Geology))

(Black Sea--Sediments (Geology))

IL'IN, A.V.; IL'IN, V.I. [revised]; SHURKO, I.I.

See data on the geology of the bottom of the Brazil depression.
Izvl. AN SSSR 164 no.6:1366-1369 O '65.

(MIRA 18:10)

1. Akusticheskiy Institut AN SSSR, Moskva. Submitted January 19,
1965.

SHURKO, I.I.

Sediment lamination and graded bedding in the zone of marine under-
water bars. Trudy Inst. okean. 53:58-63 '61. (MIRA 15:2)
(Black Sea--Sand bars)(Azov, Sea of--Sand bars)

Shurko, V.A.

4

V 4337. Zinc stearate as a dusting agent. V. A. SHURKO, I. M. LANDA, and Z. Z. RADINOVICH. *Leka Proizhodenost, Sofia*, 1954, 31-4; *Plaste u. Kaut.*, 1954, 1, 235. The production of zinc stearate and its effect on various rubber mixes are described. This agent leaves no traces and does not impair mechanical properties, it is claimed. The number of rejects is thus lessened. A relatively small amount is sufficient. 72323

MA
MET
2

BAZEVICIUS, I.M., glavnyy inzhener fabriki; SHURKO, V.I., nachal'nik
otdelochnogo tsekha; PAULAUSKAS, A.P., inzhener.

Heavy woolens produced by the "Litekass" factory. Tekst.prom.
14 no.11:6-7 N '54. (MLB 8:1)
(Lithuania--Woolen and worsted manufacture)

SHURKOV, S.N.; ABASOV, S.A.

Temperature-time dependence of the tensile strength of polymer fibers.
Vysokom.soed. 3 no.3:441-449 Mr '61. (MIRA 14:6)

1. Fiziko-tekhnicheskiy institut AN SSSR.
(Textile fibers, Synthetic—Testing) (Polymers—Thermal properties)

KHIZHNYAK, P.A.; NOVINSKIY, Yu.S., agronom; SHURKUS, I.; GARGAUN, G.;
FILITSIN, V.; GARDIMAN, V.

Information and brief news. Zashch. rast. ot vred. i bol.
9 no.5:57-60 '64. (MIRA 17:6)

1. Gosudarstvennaya inspektsiya po karantinu i zashchite
rasteniy Ministerstva sel'skogo khozyaystva SSSR (vor
Novinskiy).

SHURKUS, I. I., Cand Med Sci -- (diss) "Development of psychiatry in Lithuania." Kaunas, 1960. 43 pp; with illustrations ; (State Committee of Higher and Secondary Specialist Education of the Council of Ministers Lithuanian SSR, Kaunas State Medical Inst); 300 copies; free; list of author's works on page 43 (10 entries); (KL, 26-60, 144)

SHULYAROVA, G.I.; KUPCHENKO, I.T.

Distribution of the serological properties of the blood Rh, M and N factors among the donors of Kiev. Trudy Kiev. nauch.-issl. inst. perel. krovi i neotlozh. khir. 3:159-160 '61. (MIRA 17:10)

1. Kiyevskaya gorodskaya stantsiya perelivaniya krovi.

SKVORCHEVSKIY, N.D.; KRASOVSKIY, V.P.; DOBROVOL'SKIY, S.I. ~~SHURMAN, R.A.~~

First experience of the use of EKG excavators. Gor. zhur. no.1:
58-61 Ja '57. (MIRA 10:4)

1. Glavnyy inzhener Kounradskogo rudnika (for Skvorchevskiy).
2. Noril'skiy gorno-metallurgicheskiy kombinat. (for Krasovskiy, Dobrovol'skiy, ~~Shurman~~).
(Excavating machinery)

S/169/62/000/005/043/093
D228/D307

AUTHOR: Shurman, G. A.
TITLE: Trial application of radiometric research and isotopes
for studying the oil regions of the ChIASSR and the
Stavropol'skiy kray
PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1962, 39, ab-
stract 5A296 (V sb. Radioakt. izotopy i yadern. iz-
lucheniya v nar. kh-ve SSSR, v. 5, M., Gostoptekhnizdat,
1961, 210-218)

TEXT: Thermally stable devices for radioactivity logging in deep
wells are briefly described. A one-channel logging radiometer,
which withstands temperatures of up to 2000 and pressures of up to
800 atm, has been developed. Ways of jointly interpreting the re-
sults of neutron-gamma logging (NGL) and impedance electric-logging
when distinguishing oil reservoirs in carbonate rocks, are descri-
bed. In addition the data of NGL serve for determining a rock's
liquid content, and the impedance data permit the discrimination

Card 1/2

KALINKA, V.P., kand.med.nauk; SHUMAN, F.V., kand.med.nauk; ZHURAVLEV, N.N.,
kand.med.nauk

Third Republican Conference of Latvian Pathologists. Arkh. pat.
27 no.11:82-84 '65. (MIRA 18:12)

AGOL, V. I.; SHURMAN, G. A.

"Ob odnom tipe vzaimodeystviya virusov v kletke."

report presented at Symp on Virus Diseases, Moscow, 6-9 Oct 64.

Institut poliomielita i virusnykh entsefalitov AMN SSSR i kafedra virusologii
MGU, Moskva.

L. U. W. Hoffstaedt

1227. Tuberculosis and TB I/698. Results of Treatment of Pulmonary Tuberculosis with Secondary Laryngeal Tuberculosis. (Tuberkulose und das Thiosemicarbazone Tb I/698. Behandlungsergebnisse bei Lungen-tuberkulose mit sekundärer Kehlkopf-tuberkulose) F. SCHÜRMAN and K. L. RADENBACH. *Schweizerische Zeitschrift für Tuberkulose* [Schweiz. Z. Tuberk.] 7, 99-114, 1950.

The German literature on the tuberculostatic sulphonamides which led to the synthesis by Domagk and co-workers of the thiosemicarbazones is discussed. One of the latter, TB I/698 proved to be as bacteriostatic *in vitro* for *Mycobacterium tuberculosis* as streptomycin or *p*-aminosalicylic acid. In experimental tuberculosis this compound is reputed to be more effective than *p*-aminosalicylic acid and as effective as streptomycin. The reports on clinical trials are fairly optimistic. The action of the drug is, unlike that of sulphonamides, unaffected by *p*-aminobenzoic acid or other substances. Nothing is known of the mode of action, absorption, blood and tissue levels, or excretion of the substance. No drug resistance is believed to appear with TB I/698. The preparation is given by mouth in doses of 0.1 to 0.2 g. per day. It can be obtained as a fine powder for insufflation or inhalation and in oily, watery, or glycerin suspension for intramuscular or intracavitary injections. Toxic effects, which are said to be insignificant with the dosage recommended, should be transient and reversible. No final agreement on the length of treatment seems yet possible, but long continuous medication is advocated. Clinical reports of its use in various forms of extrapulmonary tuberculosis, such as enteritis and laryngitis, are favourable.

The authors themselves treated 33 cases of advanced pulmonary tuberculosis with laryngitis for several

months. Particularly good results are claimed in laryngitis. The pulmonary disease was also favourably influenced in a number of cases. Seven cases followed up for from 4 to 13 months did not relapse. [This is a rather optimistic paper, and the toxicity is rather minimized.]
E. Nassau

Abstracts of World Medicine
Vol 8 1950

YAKHONTOVA, Yu.V.; SHURMAN, T.Yu.

Applicability of the method for determining the sensitivity of the fecal microflora in selecting an antibiotic against intestinal diseases.

Trudy Inst. kraev. eksper. med. no.3:50-57 '61. (MIRA 15:5)

(FECES—MICROBIOLOGY) (ANTIBIOTICS)

(INTESTINES—DISEASES)

1947

"On the Synthesis of Bileic Acid Tetrachloride " by Ya. Ja. Dodonov and E. I. Shirmantayeva
(p. 349)

St: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1947, Volume 17, No. 12

SHLOPAK, T.V., dots.; SHURMELEVA, L.V.

Report on the work of the Stanislav Ophthalmological Society for
1958. Oft.zhur. 14 no.6:381-382 '59. (MIRA 13:4)

1. Predsedatel' pravleniya Stanislavskogo oftal'mologicheskogo
obshchestva (for Shlopak). 2. Sekretar' Stanislavskogo oftal'mo-
logicheskogo obshchestva (for Shurmeleva).

(STANISLAV--OPHTHALMOLOGICAL SOCIETIES)

BEKOV, D.B., SHURMILEV, V.I.

Utilization of natural and synthetic latex for injections.

Arkhn. anat. gist. i embr. 33 no. 1: 81-87 Jan-Mar '56 (MIRA 12:1)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii Voenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova (nauch. chlen korr. AMN SSSR prof. A.N. Maksimenkov) i laboratorii zavoda "RTI" v Leningrade. Adres: Bekova, = Simferopol', Khibitskaya ul., d. 35).
(CARDIOVASCULAR SYSTEM,
anat. model prod. with latex (Rus))

SHURMIN, F.

Pathologic anatomical changes in the heart in accident injuries
[with summary in English]. Vestis Latv sk no.11:117-122 '61.

BERZIN'SH, U.Ya. [Berzins, U.], kand. med. nauk; ZHURAVLEV, N.N.,
kand. med. nauk; KALINKA, V.D., kand. med. nauk;
SHURMIN, F.V., kand. med. nauk

Second Republic Conference of Pathoanatomists of Latvia.
Ark. Pat. 25 no.6:78-81 '63. (MIRA 17:1)

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<p>Mechanism of the catalysis of the oxidation of carbon monoxide on a hopcalite surface. I. Poisoning of the hopcalite by water vapor. N. Shurmovskaya and B. Brune. <i>Acta Physicochim. U. R. S. S. R.</i> 6, 513-30 (1937).— See C. A. 31, 6542⁹. M. B.</p>																																																																																																							
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SHURMOVSKAYA N

The mechanism of the catalysis of the oxidation reaction of carbon monoxide on the surface of hopcalite. 1. Polishing of hopcalite by water vapors. N. Shurmovskaya and B. Bruns. *J. Phys. Chem.* 41, 8, 301-32 (1967).

Adsorption data for H_2O on hopcalite at 20, 50, and 0.25 to 11 mm. are satisfied by the equation $1 - K/P$ in p, p . Oxidation of CO in 0.5% CO air mixts. proceeds in 2 steps: (1) oxidation of CO by O_2 from MnO_2 and reduction of the latter, followed by (2) oxidation by mol O_2 . On a hopcalite catalyst contg. 40% MnO_2 and 60% CuO , the reaction is of zero order. The energy of activation varies from 5000 to 7000 cal. As the quantity of adsorbed moisture increases, the velocity of oxidation falls linearly and becomes zero at 2.7% H_2O . The hopcalite surface consists of 2 types having, resp., heats of wetting 2300 cal. and 5000 cal./mole H_2O . L. H. Radtman.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SHURMOVSKAYA, N. *et al.*

"The Mechanism of the Catalytic Oxidation of Carbon Monoxide over Manganese Dioxide"

Zhur. Fiz. Khim., Vol. 14, Nos. 9-10, 1940

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
<p>Method of investigation of kinetic processes under high pressures and at high temperatures. I. R. Krichevskii, N. A. Shermakovskaya, and P. S. Kal'varakaya. <i>Zavodskaya Lab.</i> 18, 113-14(1946) (in Russian).—Reactants are enclosed in a series of identical glass tubes of inner diam. 2-4 mm., wall thickness 1.5-2 mm., holding 200 atm. frozen and sealed; they are then slowly rotated in an air thermostat constructed to hold 12 tubes and removed, each after a definite time interval, for analysis. N. Thon</p>																			
<p>ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION</p>																			
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<p><i>CA</i></p> <p>Determination of water vapor and oxygen in gases containing no oxygen compounds. N. Shurnovskaya and L. Kupriyanova. <i>Zhur. Anal. Khim.</i> 3, 41-4(1948).—The method is based on the interaction of C with any compd. contg. O. In the described app. the gas is passed through a quartz tube filled with specially prepd. birch charcoal. The tube is provided with a thermocouple and is placed in an elec. furnace heated to 1000°. The gas leaving the quartz tube is led through a tube filled with granular I₂O₅ and provided with a reflux condenser. The temp. inside the tube is 140°. The gases leaving the I₂O₅ tube are washed free of I vapors in 2 consecutive columns filled with 10% soln. of KI and thence through a cond. cell contg. Ba(OH)₂. The quantity of CO₂ in the final gas can be calcd. from the cond. data as outlined by Bruns, <i>et al.</i> (<i>Zhur. Anal. Khim.</i> 2, 204(1947)). M. Hosen</p>																																																																													
ASB-56A METALLURGICAL LITERATURE CLASSIFICATION																																																																													
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PROCESSES AND PROPERTIES INDEX

The kinetics and mechanism of the catalytic hydrogenation of carbon monoxide. I. A method of preparation of metal catalysts from oxides and handling the catalysts without contact with the air. G. Braude, N. Shermovskaya, and B. Bruns (Inst. Nitrogen Ind., Moscow). *J. Phys. Chem. (U.S.S.R.)* 22, 482-8 (1948) (in Russian). —Reduced metal is kept in H₂. Samples are withdrawn also in H₂. II. Formation of iron carbide during hydrogenation of carbon monoxide on an iron catalyst. G. Braude and B. Bruns. *Ibid.* 487-94. —Mixts. of CO and H₂ in the ratios 1:3 to 1:5 were circulated at 225-300° over an Fe catalyst prep'd. by H₂ reduction of Fe₂O₃. The main reaction occurring was $n\text{Fe} + \text{CO} + \text{H}_2 \rightarrow \text{Fe}_n\text{C} + \text{H}_2\text{O}$ (1). This was proved by the following observations: (a) The gas pressure dropped first (e.g. for 5 min.) rapidly and then very slowly. The rapid drop (after cooling the reaction product) corresponded to twice the original amt. of CO. (b) The reaction product was mainly H₂O, and the amt. of CH₄ and CO₂ formed was too small to account for the CO consumed. (c) The missing C was found in the catalyst. When the catalyst was used for longer time,

the concn. of C in it increased and its efficiency decreased; the catalytic activity almost disappeared when 0.24 atom C was deposited per 1 atom Fe. The slow drop of pressure was due to the reaction between this carbide and the excess of H₂. The rate of reaction I increased 2.5 times when the initial pressure of CO was raised from 20 to 241 mm. dibutyl phthalate and was about proportional to the square root of the H₂ pressure (48-1103 mm. dibutyl phthalate). The energy of activation (from the temp. coeff.) of reaction I was 15,500 cal./mole. The formation of CH₄ is due to the reaction $n\text{Fe} + 2\text{CO} \rightarrow \text{Fe}_n\text{C} + \text{CO}_2$. This reaction was studied in the absence of H₂. It follows the equation of the first order, is slower than I, and has an apparent energy of activation (between 204° and 380°) of 6900 cal./mole. The mechanism of the hydrogenation of CO is discussed.
J. J. Biherman

ASM-A METALLURGICAL LITERATURE CLASSIFICATION

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SHUBHOVSKAYA, N.A.

The catalytic activity of manganese dioxide and its specific surface. N. A. Shubhovskaya and B. P. Bruus (Inst. Nitrogen Ind., Moscow, U.S.S.R., *Khim.* 24, 1174-8 (1950).—The effect of temp. on the catalytic activity of MnO_2 was studied for the oxidation of CO. Increasing the temp. from 200° to 300° increases the activity by a factor of 2. A further increase in the temp. decreases the activity particularly between 400 and 500° where the disson. of MnO_2 occurs. The specific surface of MnO_2 changes very little between 0 and 400° and it is equal to 115 sq.m./g. Further increase in temp. causes a significant decrease; at 500° it is equal to 56 sq.m./g. The increased activity at higher temp. is due to the emergence of new active regions formed by the removal of water of hydration and not to an increase in the specific surface. J. R. L.

SHURMOVASKAYA, N. A.

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"Reaction Between Carbon Monoxide and Manganese Dioxide," N. A. Shurmovskaya, B. P. Bruns, Z. Ya. Mel'nikova, Inst of Nitrogen Ind; Moscow

"Zhur Fiz Khim"-Vol XXV, No 11, pp 1306-1312

Investigation of kinetics of interaction of active MnO_2 and CO at temps -50° to $0^\circ C$ showed that rate of interaction is detd by rate of diffusion of O from solid phase of MnO_2 to its surface. Data obtained here refute conclusions reached by earlier investigators that MnO_2 surface is highly non-uniform

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